



Features



Tilt measurement 2.0

With the new tilt measurement algorithm, you can easily achieve the coordinate acquisition of the tilt measurement simply by shaking the centering bar.



Combined antenna

The new combined antenna, GNSS, WIFI, Bluetooth, and 4G set are integrated, and the wireless signal is better. The GNSS satellite signal to noise ratio is improved by 2DB on average, and the RTK performance in a complex environment is even better.



Intelligent Base Station

After the base station is started, if a position offset occurs, the mobile station can be notified via the differential link to alert the customer, and the power of the base station and the star search status can also be displayed.



Web UI 2.0

The new design of the new generation of Web UI interface, simple and beautiful, powerful, through the mobile phone or computer browser to achieve host settings, status view, data download, firmware upgrades and other operations, so that RTK operations such as the Internet is generally simple.



Intelligent voice

Real-time voice broadcast solution mode, data link status, TTS voice support user DIY settings, to create RTK personal secrets for measuring users.



Private cloud, faster and safer

UniCloud's private measurement cloud service, remote device commissioning, status setting, coordinate system sharing, and job site feedback enable the perfect integration of field measurement and internal office processing. Users can deploy private services and ensure data security.

Technical Specifications

Model		G9II-H	G9II-TX	G9II-NX	G9II-HX
GNSS	Channels	394	336	555	394
	Signals	BD S B1, B2, B3 GPS L1CA, L2P, L2C, L5 GLOASS G1,G2, P1, P2 GALILEO E1 BC, E5a, E5b QZSS L1CA, L2C, L5, L1C SBAS L1CA, L5 L-Band			
Accuracy	Static	H: 2.5mm±1ppm , V: 5mm±1ppm			
	RTK	H: 8mm±1ppm,		11:15mm±1ppm	
	DGNSS	<0.5m			
	ATLAS	8cm	/	/	8cm
	Initialization Time	8s			
	Initialization Reliable	99.9%			
System	Operating System	Linux			
	Memory	8GB, support expanable MisroSD			
	Wifi	802.11 b/g/n			
	Bluetooth	V2.1+EDR/V4.1Dual,Class2			
	E-Bubble	/	support	support	support
	Tilt Survey	/	support IMU Tilt Survey, no need calibration		
	Audio	support TTS audio broadcast			
Datalink	UHF	TRx Internal Radio, 1W/2W adjustable			
	Protocol	support GeoTalk,SATEL,PCC-GMSK,TrimTalk,TrimMark,SOUTH			
	Network	4G-LTE, TE-SCDMA, CDMA(EVDO 2000), WCDMA, GSM(GPRS)			
	Reference outputs	RTCM2.3, RTCM3.2, CMR,CMR+,ROX	RTCM2.1,2.3,3.0,3.2 3.3,CMR,CMR+,RTCA	RTCM2.1,2.3,3.0,3.2 3.3,CMR,CMR+,RTCA	RTCM2.3, RTCM3.2, CMR,CMR+,ROX
Physical	Interface	1*TNC Radio Antenna, 1*5Pin(Power & RS232),1*7Pin (USB 81 RS232)			
	Button	1 Power Button			
	Indication Light	4 Indication Lights			
	Size	Φ156mm * H 76mm			
	Weight	1.2kg			
Power supply	Battery capacity	7.2V, 24.5Wh(standard two batteries)			
	Life Timer	Staic Survey: 15 hours, Rover RTK survey: 12h			
	External power source	DC 9-18V, with overvoltage protection			
Environment	Work Temperature	-30°C ~ +65°C			
	Storage Temperature	-40°C ~ +80°C			
	waterproof&dustproof	IP67			
	Humidity				

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(1) Accuracy and reliability specifications may be affected by multipath, satellite geometry and atmospheric conditions. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices. (2) Operating time varies based on tempera- ture. Specifications are subject to change without notice.